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(54) GARMENT SYSTEM WITH ELECTRONIC COMPONENTS AND ASSOCIATED METHODS

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The disclosure provides a wireless biometric monitoring system that may be capable of acquiring, compiling, analyzing, and transmitting biometric data in near real time/real time. The system may utilize either the most up-to-date Bluetooth protocol (currently Bluetooth Smart) or a similar wireless protocol. The system may further integrate through this wireless protocol with peripheral devices to expand the measurement capacity of the system.

In embodiments, the system may be capable of monitoring multiple biometric responses including, but not limited to: skin temperature, core temperature, respirations, heart rate, predicted tidal volume, chest wall movement, abdominal movement in conjunction with inspiration, abdominal movement in conjunction with expiration, HRR (heart rate reserve), HRV (heart rate variability), body position relevant to perpendicular, shoulder position relevant to hip position, general body posture, up time, down time, and malfunctions.

